

ATTACHMENT A

Claims 1 – 12: (Cancelled)

13. (New) An adduct comprising MgCl_2 , ethanol and a Lewis base (LB) different from water, said adduct further comprising formula $\text{MgCl}_2 \cdot (\text{EtOH})_n (\text{LB})_p$, wherein n is from 2 to 6 and p is $p/(n+p) \leq 0.1$.

14. (New) The adduct according to claim 13, wherein p is $p/(n+p) \leq 0.0125$.

15. (New) The adduct according to claim 13, wherein the Lewis base is selected from ethers, esters, compounds of formula RX_m , and combinations thereof, wherein R is a hydrocarbon group comprising from 1 to 20 carbon atoms; X is $-\text{NH}_2$, $-\text{NHR}$ or $-\text{OH}$; and m is 1 or higher.

16. (New) The adduct of claim 15, wherein RX_m is selected from the group consisting of methanol, propanol, isopropanol, n -butanol, sec -butanol, tert -butanol, pentanol, 2-methyl-1-pentanol, 2-ethyl-1-hexanol, phenol, 4-methyl-1-phenol, 2,6-dimethyl-1-phenol, cyclohexanol, cyclopentanol, ethylen glycol, propylen glycol, 4-butanediol, glycerine, mannitol, polyvinyl-alcohol, acetonitrile, ethylenediammine, 3-picoline, triethanolamine, triethylamine, and diisopropylamine.

17. (New) The adduct according to claim 13, comprising a fusion enthalpy lower than 100 J/g.

18. (New) A catalyst component for polymerizing at least one olefin comprising a product of a reaction between a transition metal compound and the adduct according to claim 13.

19. (New) The catalyst component according to claim 18, wherein the transition metal compound is selected from at least one titanium compound comprising formula $\text{Ti}(\text{OR})_n \text{X}_{y-n}$, wherein n is between 0 and y ; y is a valence of titanium; X is halogen; and R is an alkyl

radical comprising 1-8 carbon atoms, or COR, wherein R is a hydrocarbon group comprising from 1 to 20 carbon atoms.

20. (New) The catalyst component according to claim 19, wherein the titanium compound is selected from TiCl_3 , TiCl_4 , $\text{Ti}(\text{OBu})_4$, $\text{Ti}(\text{OBu})\text{Cl}_3$, $\text{Ti}(\text{OBu})_2\text{Cl}_2$, and $\text{Ti}(\text{OBu})_3\text{Cl}$.

21. (New) The catalyst component according to claim 18, wherein the reaction between the transition metal compound and the adduct is carried out in presence of an electron donor compound.

22. (New) The catalyst component according to claim 21, wherein the electron donor is selected from esters, ethers, amines, and ketones.

23. (New) A catalyst for polymerizing at least one olefin comprising a product of a reaction between the catalyst component according to claim 19, and an aluminum alkyl compound.

24. (New) A process for polymerizing at least one olefin of formula $\text{CH}_2=\text{CHR}$, wherein R is hydrogen or a hydrocarbon radical comprising 1-12 carbon atoms, carried out in presence of the catalyst according to claim 23.